

AMS CHANGE REQUEST/DIRECTIVE

1. CR/DIR Number: AMS-02 / D-047

2. Date: 03/12/2007

3. Change Title: Phase II Flight Safety Hazard Report Baseline - AMS-02-F01 (03/19/2007)

4. Cost Impact: _____

5. Document(s) Affected: JSC 49978, "Phase II Flight Safety Data Package for the Alpha Magnetic Spectrometer - 02 (AMS-02)"

6. Weight Impact: _____

7. Schedule Impact: _____

8. Other Impacts: _____

9. Description Of Change:

Baseline Hazard Report (HR) AMS-02-F01 has been modified since baseline to include updated structures and fracture control tables, additional controls added to address small non-structural fastener release, closures of several verifications and minor editorial changes.

10. Justification:

HR AMS-02-F01, "Structural Failure of Hardware" provides a complete description of the AMS-02 Payload hazard associated with structural failure. This HR is a part of a detailed safety analysis of the AMS-02 payload and all its detectors and subsystems that is presented in the complete JSC 49978. The HR documents that the payload meets the requirements of the current version of NSTS 1700.7 and NSTS 1700.7 ISS Addendum, para. 301; and is required to be submitted as part of the SDP (JSC 49978) to the PSRP 45 days prior to the Phase II Flight Safety Review. This HR must be signed and approved by the AMS-02 Project Manager prior to submittal for PSRP Review.

11. Action Required (To Implement This Change):

AMS-02 CCB Approval and AMS-02 Project Manager must sign hazard report prior to submittal to PSRP prior to April 05, 2007

12. Initiator/Organization: Leland Hill/ESCG

13. Organization Approval: EA

14. Disposition:

- ☐ Deferred
- ☒ Approved
- ☐ Approved With Changes Indicated
- ☐ Disapproved

15. Approval: _____

CCB Chairman/Date

3/19/07

AMS CHANGE REQUEST/DIRECTIVE EVALUATOR LIST

1. CRN: AMS-02 / D-047

2. Page 2 of 2

3. Title: Phase II Flight Safety Hazard Report Baseline - AMS-02-F01 (03/19/2007)

☒ Configuration Control Board (CCB) Members

Flight Crew Operations Directorate (CA)

☐ Astronaut Office (CB)☐ Mission Operations Directorate (DA)

Engineering Directorate (EA)

☐ Crew and Thermal Systems Division (EC)☐ Structural Engineering Division (ES)☐ Energy Systems Division (EP)☐ Avionics Systems Division (EV)☐ Automation, Robotics, & Simulation Division (ER)☐ Space Shuttle Program (MA)☐ Space Shuttle Flight Operations & Integration Office (MO)

International Space Station Program Office (OA)

☐ Vehicle Office (OB)☐ Program Integration Office (OM)☐ Mission Integration & Operations Office (OC)☒ Payloads Office (OZ)

Other NASA Centers

☐ Goddard Space Flight Center (GSFC)☐ Marshall Space Flight Center (MSFC)☐ Kennedy Space Center (KSC)

Others

☒ Mike Capell, MIT☒ Stephen Harrison, SCL☒ Marco Molina, CGS☒ Wolfgang Wallraff, RWTH Aachen☒ Klaus Lübelmeyer, RWTH Aachen☒ Paolo Trampus, CARSO☒ Roberto Battiston, INFN Perugia☒ Thorsten Siedenburger, RWTH Aachen☒ Giuliano Laurenti, INFN Bologna☒ Y. T. Ting, CSIST☒ Franco Cervelli, INFN Pisa☒ Guillermo Muñoz, CRISA☒ Jean-Pierre Vialle, LAPP☒ Agnieszka Jacholkowska, GAM, IN2P3☒ Joe Burger, MIT☒ Johannes Van Es, NLR